

<b>Notice of Allowability</b>	Application No.	Applicant(s)
	09/761,766	RICHARDS, JAMES L.
	Examiner Phuong Phu	Art Unit 2631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to the Election filed on 8/5/05.
2.  The allowed claim(s) is/are 23,24,45 and 47.
3.  The drawings filed on 18 January 2001 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 4/30/01
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

### **DETAILED ACTION**

This Office Action is responsive to the Election filed on 8/5/05.

#### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Robert Babayi on 08/19/2005.

The application has been amended as follows:

#### **IN THE CLAIMS:**

- Claims 1-22, 25-44 and 46 has been canceled.
- In claim 45, on line 7, the phrase --and said sinusoidal signal,-- has been inserted after the limitation "said phase adjustment signal".
- In claim 47, on line 1, the limitation "claim 46" has been changed into --claim 45--.
- In claim 47, on line 2, the limitation "said coding signal" has been changed into --a coding signal".

#### **REASONS FOR ALLOWANCE**

2. Claims 23, 24, 45 and 47 are allowed.
3. The following is an examiner's statement of reasons for allowance:

References 5687169, 5677927, 6925109, 20030147480 and 6539213 are cited because they are pertinent to the claimed invention.

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-Regarding to independent claims 23 and 24, none of prior art of record teaches or suggests a method comprising procedures of adjusting the phase of a sinusoidal signal using a coding signal to produce a code phase modulated sinusoidal signal; multiplying said code phase modulated sinusoidal signal by a train of pulses to produce a template signal consisting of a train of code phase modulated sinusoidal bursts; and cross-correlating a received impulse radio signal with said template signal to output a baseband signal.

-Regarding to independent claim 45, none of prior art of record teaches or suggests as system comprising a phase modulator of receiving a phase adjustment signal and a sinusoidal signal and outputting a phase modulated sinusoidal signal; a multiplier of multiplying said phase modulated sinusoidal signal with a train of pulses and outputting a template signal consisting of a train of code phase modulated sinusoidal bursts; and cross-correlator of cross-correlating a received impulse radio signal with said template signal to output a baseband signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (6:30-2:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong Phu  
Primary Examiner  
Art Unit 2631

*Phuong Phu*  
Phuong Phu  
08/19/05

**PHUONG PHU**  
**PRIMARY EXAMINER**